

INDEX TO VOLUME XXXIV

SUBJECTS

	PAGE
ALUMINIUM in Arc under Reduced Pressure, Spectrum of. <i>James Barnes</i>	159
ARC for Spectroscopic Work, An Inclosed. <i>James Barnes</i>	154
β <i>Aurigae</i> , New Bright Variable Star. <i>Joel Stebbins</i>	112
BINARY κ <i>Pavonis</i> , Inquiry into Variation of Spectroscopic. <i>Alex. W. Roberts</i>	164
BODE's Law and Spiral Structure in Nebulae. <i>William Sutherland</i>	251
BOOKS RECEIVED	414
CALCIUM lines K, H, and g (λ 4227), Effects of Variations of Vapor-Density on. <i>Oliver J. Lee</i>	397
Vapor over Sun-Spots and Other Special Regions, Motions and Condition of. I, II. <i>Charles E. St. John</i>	57, 131
CATHODE Rays, Production of Light by. <i>Gordon S. Fulcher</i>	388
CHROMIUM, Note on the Zeeman Effect for. <i>J. E. Purvis</i>	312
COLOR-ESTIMATES, Various Scales for. <i>J. G. Hagen</i>	261
COMET Morehouse (1908 c), Spectrum of. <i>A. de la Baume Pluvinet and F. Baldet</i>	89
Distribution of Brightness in Tail of Halley's. <i>K. Schwarzschild and E. Kron</i>	342
COPPER in the Arc under Reduced Pressure, Spectrum of. <i>James Barnes</i>	159
α <i>Cygni</i> , Radial Velocity of. <i>Oliver J. Lee</i>	303
ECHLETTE Grating, Concerning the. <i>A. Trowbridge</i>	317
ELECTRIC Furnace Spectra, Effect of Pressure upon. <i>Arthur S. King</i>	37
ERRATA	415
FLEMING, Williamina Paton. <i>Annie J. Cannon</i>	314
FURNACE Spectra, Effect of Pressure upon Electric. <i>Arthur S. King</i>	37
GRATING, Concerning the Echelette. <i>A. Trowbridge</i>	317
HYDROGEN Lines by High Pressures, Widening of. <i>R. Rossi</i>	299
IRON, Influence of Magnetic Field upon Spark Spectrum of. Summary of Results. <i>Arthur S. King</i>	225
LIGHT by Cathode Rays, Production of. <i>Gordon S. Fulcher</i>	388
LINES by High Pressure, Widening of Hydrogen. <i>R. Rossi</i>	299
MAGNESIUM in Arc under Reduced Pressure, Spectrum of. <i>James Barnes</i>	159
MAGNETIC FIELD, Grouping of Triplet Separations Produced by. <i>Harold D. Babcock</i>	288

INDEX TO VOLUME XXXIV

SUBJECTS

	PAGE
ALUMINIUM in Arc under Reduced Pressure, Spectrum of. <i>James Barnes</i>	159
ARC for Spectroscopic Work, An Inclosed. <i>James Barnes</i>	154
β <i>Aurigae</i> , New Bright Variable Star. <i>Joel Stebbins</i>	112
BINARY κ <i>Pavonis</i> , Inquiry into Variation of Spectroscopic. <i>Alex. W. Roberts</i>	164
BODE's Law and Spiral Structure in Nebulae. <i>William Sutherland</i>	251
BOOKS RECEIVED	414
CALCIUM lines K, H, and g (λ 4227), Effects of Variations of Vapor-Density on. <i>Oliver J. Lee</i>	397
Vapor over Sun-Spots and Other Special Regions, Motions and Condition of. I, II. <i>Charles E. St. John</i>	57, 131
CATHODE Rays, Production of Light by. <i>Gordon S. Fulcher</i>	388
CHROMIUM, Note on the Zeeman Effect for. <i>J. E. Purvis</i>	312
COLOR-ESTIMATES, Various Scales for. <i>J. G. Hagen</i>	261
COMET Morehouse (1908 c), Spectrum of. <i>A. de la Baume Pluvinet and F. Baldet</i>	89
Distribution of Brightness in Tail of Halley's. <i>K. Schwarzschild and E. Kron</i>	342
COPPER in the Arc under Reduced Pressure, Spectrum of. <i>James Barnes</i>	159
α <i>Cygni</i> , Radial Velocity of. <i>Oliver J. Lee</i>	303
ECHLETTE Grating, Concerning the. <i>A. Trowbridge</i>	317
ELECTRIC Furnace Spectra, Effect of Pressure upon. <i>Arthur S. King</i>	37
ERRATA	415
FLEMING, Williamina Paton. <i>Annie J. Cannon</i>	314
FURNACE Spectra, Effect of Pressure upon Electric. <i>Arthur S. King</i>	37
GRATING, Concerning the Echelette. <i>A. Trowbridge</i>	317
HYDROGEN Lines by High Pressures, Widening of. <i>R. Rossi</i>	299
IRON, Influence of Magnetic Field upon Spark Spectrum of. Summary of Results. <i>Arthur S. King</i>	225
LIGHT by Cathode Rays, Production of. <i>Gordon S. Fulcher</i>	388
LINES by High Pressure, Widening of Hydrogen. <i>R. Rossi</i>	299
MAGNESIUM in Arc under Reduced Pressure, Spectrum of. <i>James Barnes</i>	159
MAGNETIC FIELD, Grouping of Triplet Separations Produced by. <i>Harold D. Babcock</i>	288

INDEX TO SUBJECTS

	417
	PAGE
MELTING-POINTS of Tantalum and Tungsten. <i>William E. Forsythe</i>	353
METEOROLOGY and of Solar Radiation, Need of Adjustment of Data of Terrestrial. <i>Frank W. Very</i>	371
NEBULAE, Bode's Law and Spiral Structure in. <i>William Sutherland</i>	251
PARALLAX with the Yerkes Refractor, VII, Photographic Determinations of Stellar. <i>Frank Schlesinger</i>	26
κ Pavonis, Inquiry into Variation of Spectroscopic Binary. <i>Alex. W. Roberts</i>	164
PHOSPHORESCENCE in Zinc Sulphide, Effect of Red and Infra-red on Decay of. <i>Herbert E. Ives and M. Luckiesh</i>	173
PHOTOGRAPHY, Nicked Glass Reflectors for Celestial. <i>R. W. Wood</i>	404
PRESSURES, Widening of the Hydrogen Lines by High. <i>R. Rossi</i>	299
PRISM with Curved Faces, for Spectrograph or Spectroscope. <i>Ch. Fery</i>	79
REFLECTORS for Celestial Photography, Nicked Glass. <i>R. W. Wood</i>	404
REVIEWS:	
Larmor, Sir Joseph. <i>Mathematical and Physical Papers of Lord Kelvin</i> (Henry Crew)	320
Schuster, Arthur. <i>An Introduction to the Theory of Optics</i> (Joseph S. Ames)	410
Southall, James P. C. <i>The Principles and Methods of Geometrical Optics, Especially as Applied to the Theory of Optical Instruments</i> (A. C. L.)	412
Whittaker, E. T. <i>A History of the Theory of Aether and Electricity from the Age of Descartes to the Close of the Nineteenth Century.</i> (C. M. Sparrow)	322
SELENITE, Residual Rays of. <i>H. M. Randall</i>	308
SELENIUM Vapor and Effect of Temperature upon it, Absorption Spectrum of. <i>E. J. Evans and G. N. Antonoff</i>	277
SOLAR Prominence of October 10, 1910. <i>Frederick Slocum</i>	294
Radiation, Need of Adjustment of Data of Terrestrial Meteorology and of. <i>Frank W. Very</i>	371
SPECTRA, Some Infra-red. <i>H. M. Randall</i>	1
Effect of Pressure upon Electric Furnace. <i>Arthur S. King</i>	37
of Aluminium, Copper, and Magnesium in the Arc under Reduced Pressure. <i>James Barnes</i>	159
of Iron and Titanium, Influence of Magnetic Field upon Spark. Summary of Results. <i>Arthur S. King</i>	225
Internal and Cloud Velocities for Groups of Stars of Different Types of. <i>H. A. Weersma</i>	325
SPECTROGRAPH or Spectroscope, Prism with Curved Faces for. <i>Ch. Fery</i>	79
SPECTROSCOPIC Binary, κ Pavonis, Inquiry into Variation of. <i>Alex. W. Roberts</i>	164
Work, Inclosed Arc for. <i>James Barnes</i>	154

	PAGE
SPECTRUM of Vanadium, Effect of Pressure on Arc. <i>R. Rossi</i> . . .	21
and Temperature, The Sun's Energy-. <i>C. G. Abbot</i> . . .	197
of Selenium Vapor and the Effect of Temperature upon It, The Absorption. <i>E. J. Evans</i> and <i>G. N. Antonoff</i> . . .	277
STAR, β Aurigae, New Bright Variable. <i>Joel Stebbins</i> . . .	112
STARS, Discovery of Eclipsing Variable. <i>Joel Stebbins</i> . . .	105
of Different Types of Spectra, Internal and Cloud Velocities for Groups of. <i>H. A. Weersma</i> . . .	325
SUN'S Energy-Spectrum and Temperature. <i>C. G. Abbot</i> . . .	197
SUN-SPOTS and Other Special Regions, Motion and Condition of Cal- cium Vapor over. I, II. <i>Charles E. St. John</i> . . .	57, 131
TANTALUM, Determination of Melting-Point of. <i>William E. Forsythe</i> . . .	353
TEMPERATURE, Effect of, upon Absorption Spectrum of Selenium Vapor. <i>E. J. Evans</i> and <i>G. N. Antonoff</i> . . .	277
TITANIUM, Influence of Magnetic Field upon Spark Spectrum of. <i>Arthur S. King</i> . . .	225
TUNGSTEN, Determination of Melting-Point of. <i>William E. Forsythe</i> . . .	353
VANADIUM, Effect of Pressure on Arc Spectrum of. <i>R. Rossi</i> . . .	21
Zeeman Effect for. <i>Harold D. Babcock</i> . . .	209
VAPOR-DENSITY on Calcium Lines K, H, and g (λ 4227), Effect of Variations of. <i>Oliver J. Lee</i> . . .	397
VARIABLE Stars, Discovery of Eclipsing. <i>Joel Stebbins</i> . . .	105
Star, β Aurigae, New Bright. <i>Joel Stebbins</i> . . .	112
VELOCITIES for Groups of Stars of Different Types of Spectra, Internal and Cloud. <i>H. A. Weersma</i> . . .	325
VELOCITY of α Cygni, The Radial. <i>Oliver J. Lee</i> . . .	303
YERKES Refractor, Photographic Determinations of Stellar Parallax with. VII. <i>Frank Schlesinger</i> . . .	26
ZEEMAN Effect for Vanadium. <i>Harold D. Babcock</i> . . .	209
Effect for Chromium, Note on. <i>J. E. Purvis</i> . . .	312
ZINC Sulphide, Effect of Red and Infra-red on Decay of Phosphores- cence in. <i>Herbert E. Ives</i> and <i>M. Luckiesh</i> . . .	173

INDEX TO VOLUME XXXIV

AUTHORS

	PAGE
ABBOT, C. G. The Sun's Energy-Spectrum and Temperature	197
AMES, JOSEPH S. Review of: <i>An Introduction to the Theory of Optics</i> , Arthur Schuster	410
ANTONOFF, G. N., and E. J. EVANS. The Absorption Spectrum of Selenium Vapor and the Effect of Temperature upon It	277
BABCOCK, HAROLD D. The Zeeman Effect for Vanadium	209
Note on the Grouping of Triplet Separations Produced by a Magnetic Field	288
BALDET, F., and A. DE LA BAUME PLUVINEL. Spectrum of Comet Morehouse (1908 c)	89
BARNES, JAMES. An Inclosed Arc for Spectroscopic Work	154
The Spectra of Aluminium, Copper, and Magnesium in the Arc under Reduced Pressure	159
CANNON, ANNIE J. Williamina Paton Fleming	314
CREW, HENRY. Review of: <i>Mathematical and Physical Papers of Lord Kelvin</i> , Sir Joseph Larmor	320
EVANS, E. J., and G. N. ANTONOFF. The Absorption Spectrum of Selenium Vapor and the Effect of Temperature upon It	277
FÉRY, CH. A Prism with Curved Faces, for Spectrograph or Spectroscope	79
FORSYTHE, WILLIAM E. A Determination of the Melting-Points of Tantalum and Tungsten	353
FULCHER, GORDON S. The Production of Light by Cathode Rays	388
HAGEN, J. G. Various Scales for Color-Estimates	261
IVES, HERBERT E., and M. LUCKIESH. The Effect of Red and Infra-red on the Decay of Phosphorescence in Zinc Sulphide	173
KING, ARTHUR S. The Effect of Pressure upon Electric Furnace Spectra	37
The Influence of a Magnetic Field upon the Spark Spectra of Iron and Titanium—Summary of Results	225
KRON, E., and K. SCHWARZSCHILD. On the Distribution of Brightness in the Tail of Halley's Comet	342
LEE, OLIVER J. The Radial Velocity of α Cygni	303
Effects of Variations of Vapor-Density on the Calcium Lines K, H, and g (λ 4227)	397
LUCKIESH, M., and HERBERT E. IVES. The Effect of Red and Infra-red on the Decay of Phosphorescence in Zinc Sulphide	173

	PAGE
LUNN, A. C. Review of: <i>The Principles and Methods of Geometrical Optics, Especially as Applied to the Theory of Optical Instruments</i> , James P. C. Southall	412
PLUVINEL, A. DE LA BAUME, and F. BALDET. Spectrum of Comet Morehouse (1908 c)	89
PURVIS, J. E. Note on the Zeeman Effect for Chromium	312
RANDALL, H. M. Some Infra-red Spectra	1
Residual Rays of Selenite	308
ROBERTS, ALEX. W. An Inquiry into the Variation of the Spectroscopic Binary κ Pavonis	164
ROSSI, R. The Effect of Pressure on the Arc Spectrum of Vanadium	21
The Widening of the Hydrogen Lines by High Pressures	299
ST. JOHN, CHARLES E. Motion and Condition of Calcium Vapor over Sun-Spots and Other Special Regions, I, II	57, 131
SCHLESINGER, FRANK. Photographic Determinations of Stellar Parallax with the Yerkes Refractor, VII	26
SCHWARZSCHILD, K., and E. KRON. On the Distribution of Brightness in the Tail of Halley's Comet	342
SLOCUM, FREDERICK. The Solar Prominence of October 10, 1910	294
SPARROW, C. M. Review of: <i>A History of the Theories of Aether and Electricity from the Age of Descartes to the Close of the Nineteenth Century</i> , E. T. Whittaker	322
STEBBINS, JOEL. The Discovery of Eclipsing Variable Stars	105
A New Bright Variable Star, β Aurigae	112
SUTHERLAND, WILLIAM. Bode's Law and Spiral Structure in Nebulae	251
TROWBRIDGE, A. Concerning the Echelette Grating	317
VERY, FRANK W. On the Need of Adjustment of the Data of Terrestrial Meteorology and of Solar Radiation; and on the Best Value of the Solar Constant	371
WEERSMA, H. A. On the Internal and Cloud Velocities for Groups of Stars of Different Types of Spectra	325
WOOD, R. W. Nickered Glass Reflectors for Celestial Photography	404

